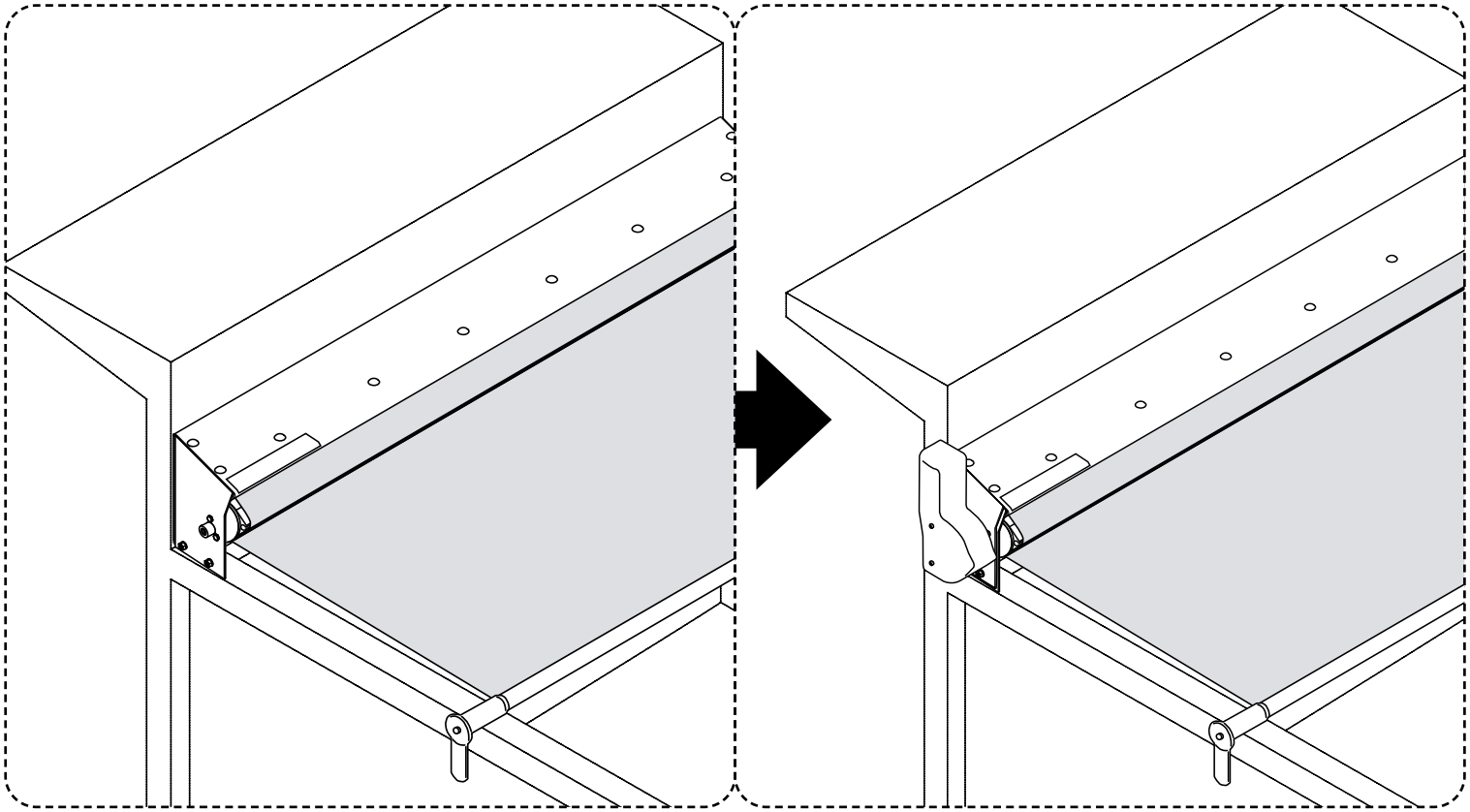
PULLTARPS®

INSTALLATION INSTRUCTIONS

Steel Protector, Aluminator 7000M & Open 9000M w/EDU Conversion Kit

501-0715, 501-0719, 501-0725, 501-0736
(230-0215 Configuration)



ATTENTION **DURING INSTALLATION, SOME FABRICATION MAY BE REQUIRED.**

Document #: 607-0138
Revised: 11/11/26 WLH

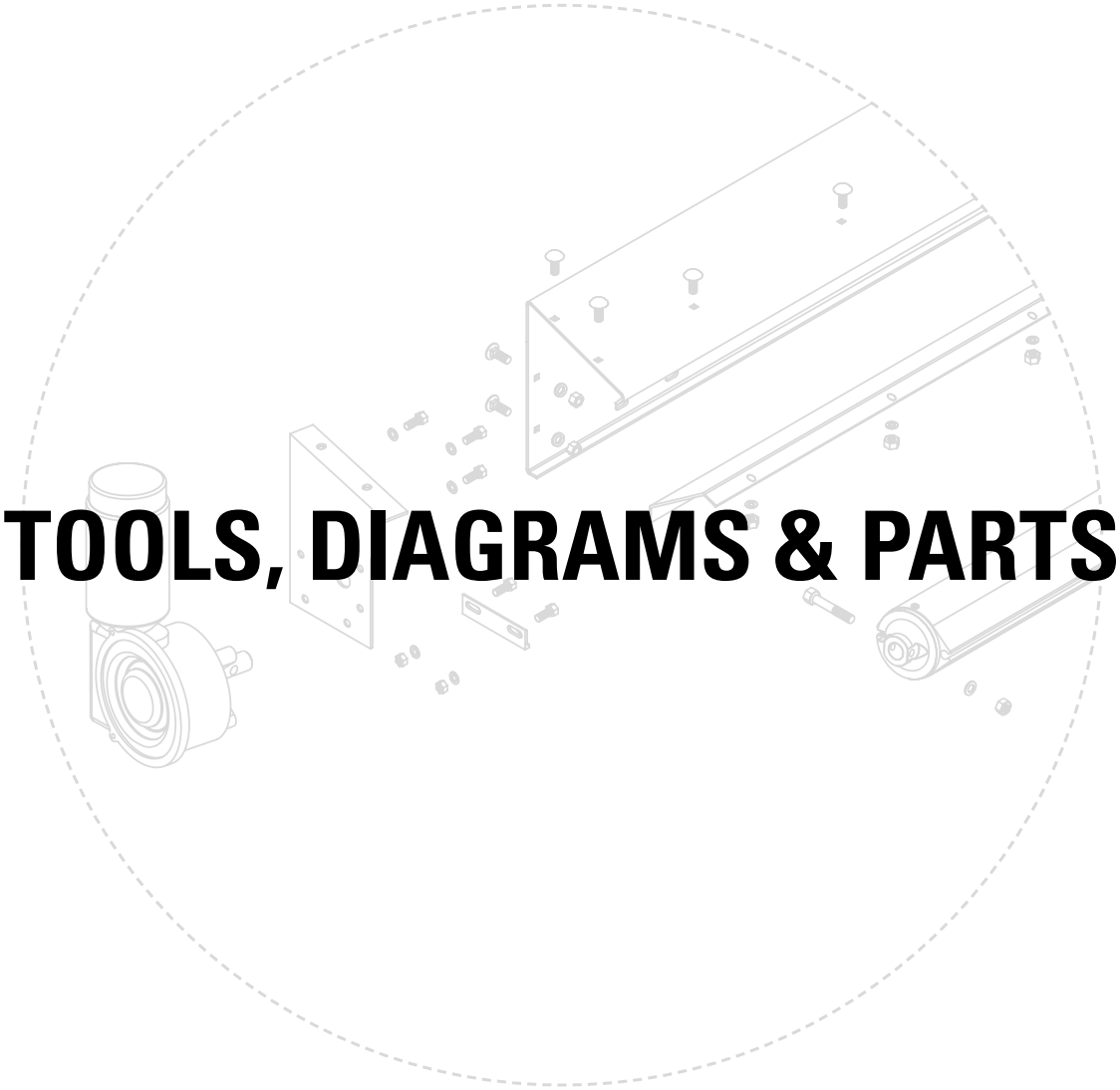
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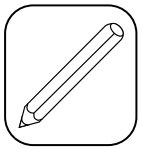


TOOLS, DIAGRAMS & PARTS

Recommended Tools

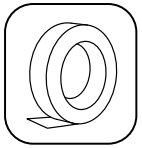

Safety Glasses and Gloves


Tape Measure


Pencil or Marker


Metal File

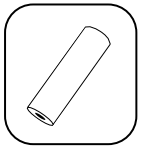

Hacksaw


Masking Tape

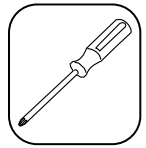

Mallet or Deadblow Hammer


Adjustable Wrench


Socket Wrench


1/2" Socket


Impact Drill

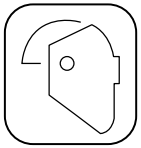

Philips Screwdriver

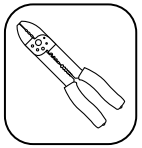

1/2" Open/Close Wrench


Hammer

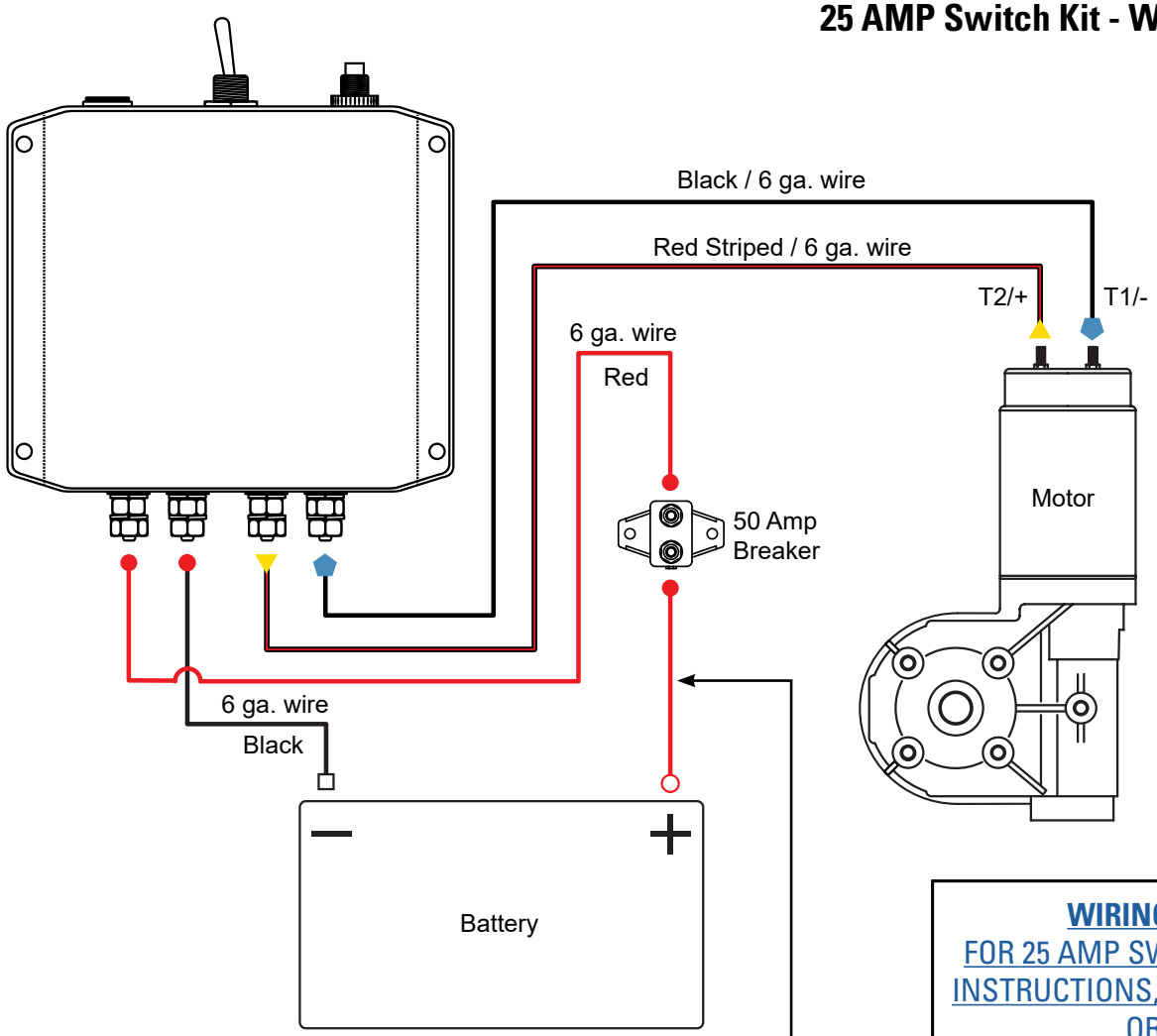

Flathead Screwdriver


5/16" Wrench


Welding Equipment & Helmet


Wire Cutters

25 AMP Switch Kit - Wiring Diagram #514-0101



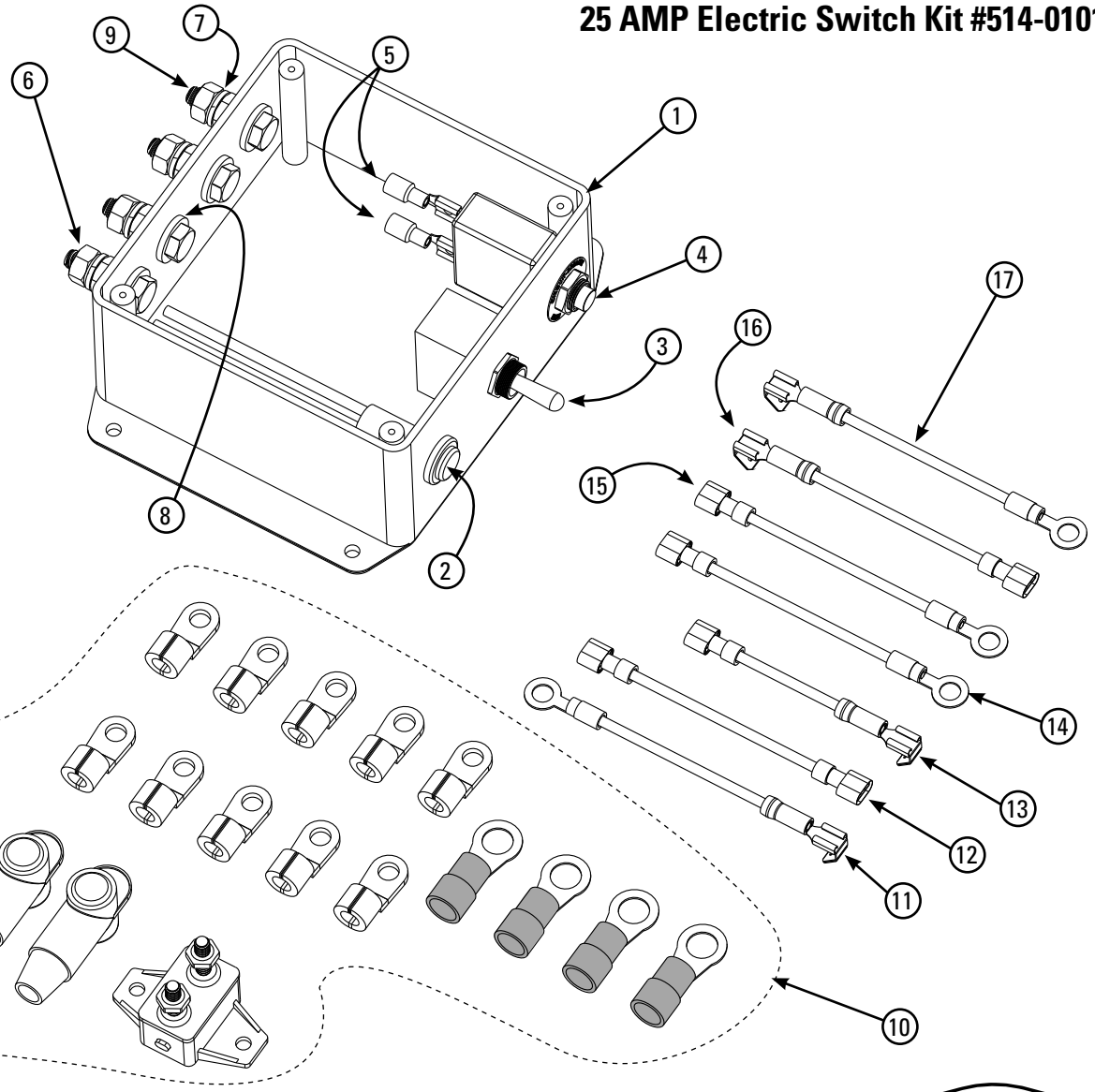
BOOT COLORS	Red	Yellow	Blue
With Boot	●	▲	⬟
No Boot	○	N/A	N/A

WIRING INSTRUCTIONS
FOR 25 AMP SWITCH KIT INSTALLATION INSTRUCTIONS, SEE DOCUMENT 607-0059 OR CLICK HERE

Note: 12" Max distance between Battery and Breaker.

25 AMP Electric Switch Kit #514-0101

ITEM	PART #	DESCRIPTION	QTY
1	514-9991	Enclosure for Electric Pulltarp	1
2	514-9904	Red Lamp - 12V	1
3	514-0102	15A Switch for Electric Pulltarp	1
4	514-0402	25 AMP "Push to Reset" Breaker	1
5	514-0332	Push-Onspade Term. 22-18 1/4"	2
6	504-2502	1/4" - 20 Brass Nut	8
7	505-2503	1/4" Lockwasher (Shown in Flattened State)	8
8	505-2501	1/4" Washer	8
9	503-2508	1/4 - 20 x 1 HHCS GR5	4
10	106870	Breaker and Connector Kit	1
11	514-9923	10GA Black Wire Assy., 3" Long Stacked .25" Male Spade, .25 Ring Term	1
12	514-9924	10GA Black Wire Assy., 3" Long .25" Female Spade, Insulated both ends	1
13	514-9928	10GA Black Wire Assy.2" Long Stacked .25" Male Spade .25" Female Spade, Insulated	1
14	514-9929	10GA Orange Wire Assy., 3" Long .25" Ring Terminal .25" Female Spade, Insulated	1
15	514-9959	10GA Red Wire Assy., 3" Long .25" Female Spade, Insulated .25" Ring Term	1
16	514-9960	10GA Blue Wire Assy., 3" Long Stacked .25" Male Spade .25" Female Spade, Insulated	1
17	514-9961	10GA Blue Wire Assy, 3" Long Stacked .25" Male Spade .25" Ring Terminal	1

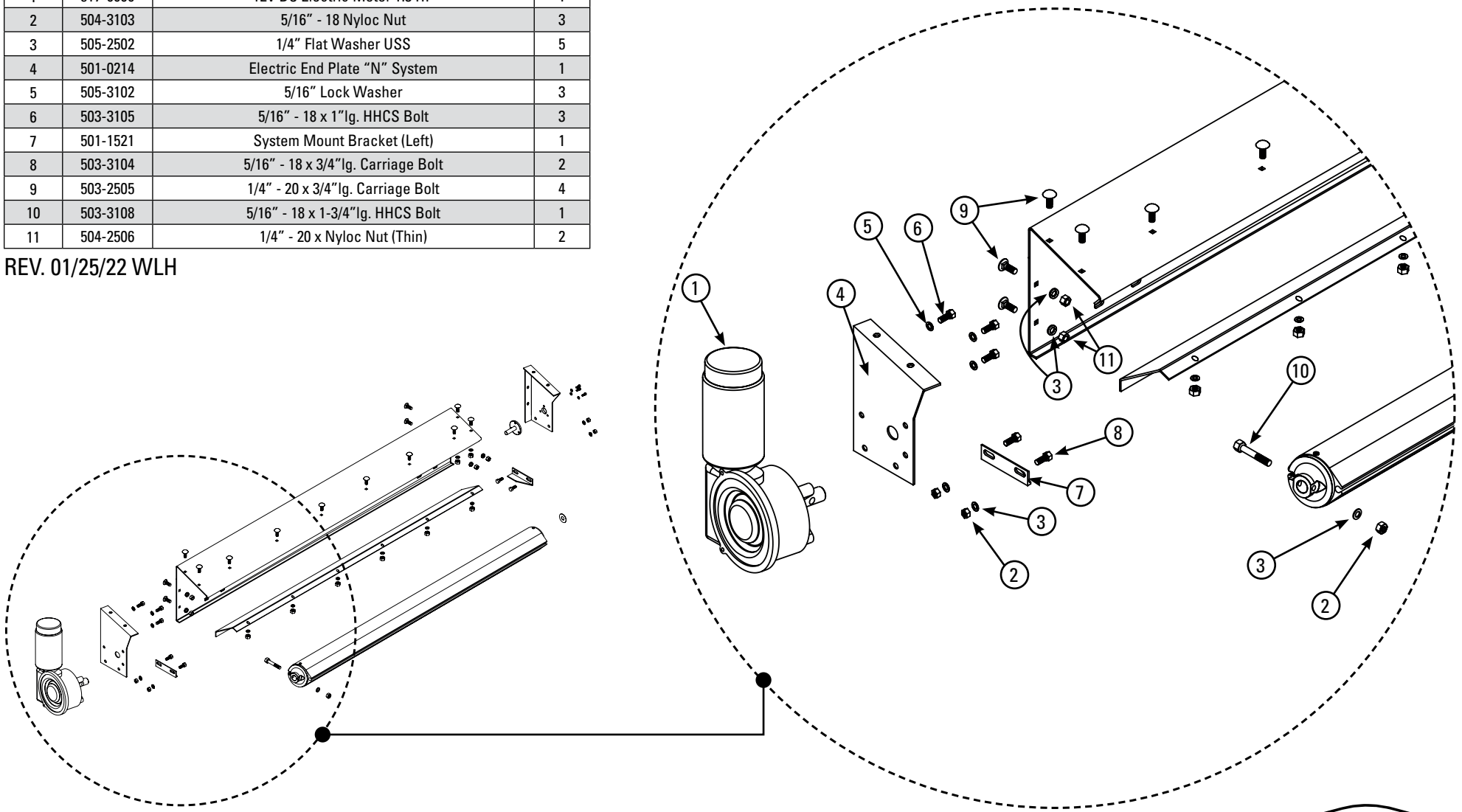


REV. 10/05/21WLH

Steel Protector Conversion Kit: 501-0715

ITEM	PART #	DESCRIPTION	QTY
1	517-0909	12V DC Electric Motor 1.3 HP	1
2	504-3103	5/16" - 18 Nyloc Nut	3
3	505-2502	1/4" Flat Washer USS	5
4	501-0214	Electric End Plate "N" System	1
5	505-3102	5/16" Lock Washer	3
6	503-3105	5/16" - 18 x 1"lg. HHCS Bolt	3
7	501-1521	System Mount Bracket (Left)	1
8	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	2
9	503-2505	1/4" - 20 x 3/4"lg. Carriage Bolt	4
10	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
11	504-2506	1/4" - 20 x Nyloc Nut (Thin)	2

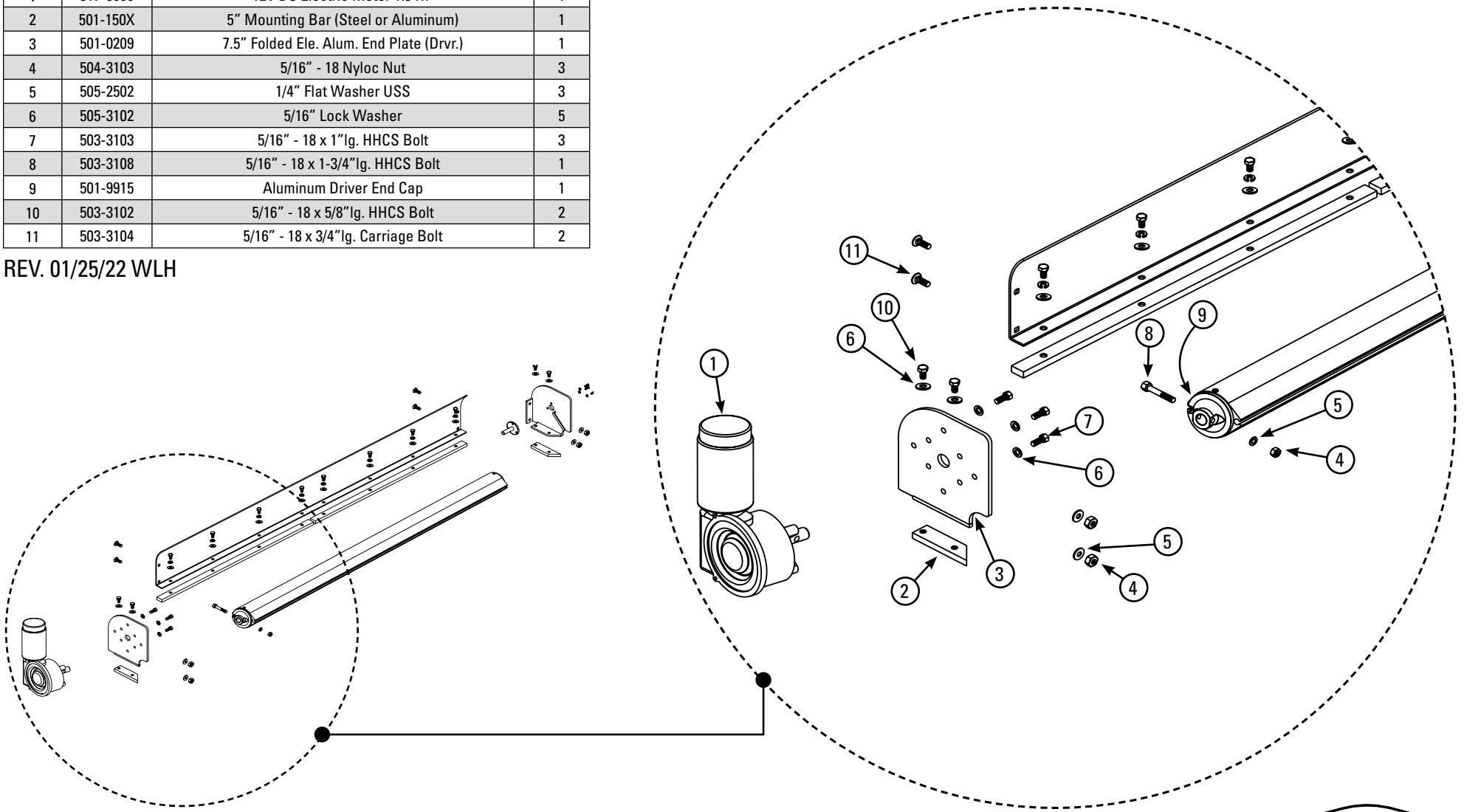
REV. 01/25/22 WLH



Aluminator 7000M Conversion Kit: 501-0719

ITEM	PART #	DESCRIPTION	QTY
1	517-0909	12V DC Electric Motor 1.3 HP	1
2	501-150X	5" Mounting Bar (Steel or Aluminum)	1
3	501-0209	7.5" Folded Ele. Alum. End Plate (Drvr.)	1
4	504-3103	5/16" - 18 Nyloc Nut	3
5	505-2502	1/4" Flat Washer USS	3
6	505-3102	5/16" Lock Washer	5
7	503-3103	5/16" - 18 x 1"lg. HHCS Bolt	3
8	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
9	501-9915	Aluminum Driver End Cap	1
10	503-3102	5/16" - 18 x 5/8"lg. HHCS Bolt	2
11	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	2

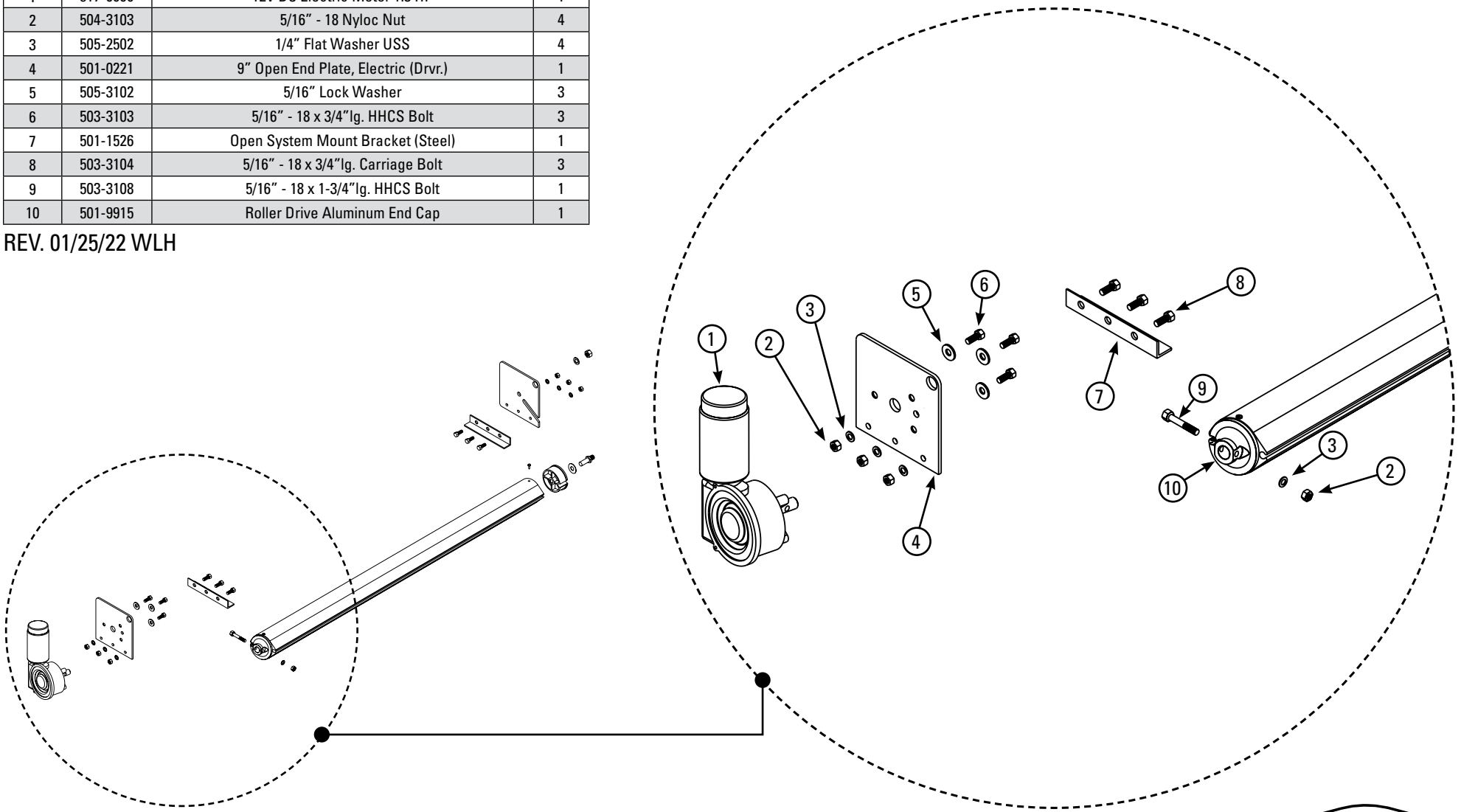
REV. 01/25/22 WLH



Open 9000M Conversion Kit: 501-0725

ITEM	PART #	DESCRIPTION	QTY
1	517-0909	12V DC Electric Motor 1.3 HP	1
2	504-3103	5/16" - 18 Nyloc Nut	4
3	505-2502	1/4" Flat Washer USS	4
4	501-0221	9" Open End Plate, Electric (Drvr.)	1
5	505-3102	5/16" Lock Washer	3
6	503-3103	5/16" - 18 x 3/4"lg. HHCS Bolt	3
7	501-1526	Open System Mount Bracket (Steel)	1
8	503-3104	5/16" - 18 x 3/4"lg. Carriage Bolt	3
9	503-3108	5/16" - 18 x 1-3/4"lg. HHCS Bolt	1
10	501-9915	Roller Drive Aluminum End Cap	1

REV. 01/25/22 WLH





ELECTRIC DRIVE CONVERSION KIT INSTALLATION

Securing Roller and Removing Tarp

Step 1: Extend tarp until it is completely unrolled from the roller tube (Fig. 1 & 2) and over the tail gate. Once tarp is fully extended, tie off at the end of the tail gate, so tarp will not roll back.

Fig. 1

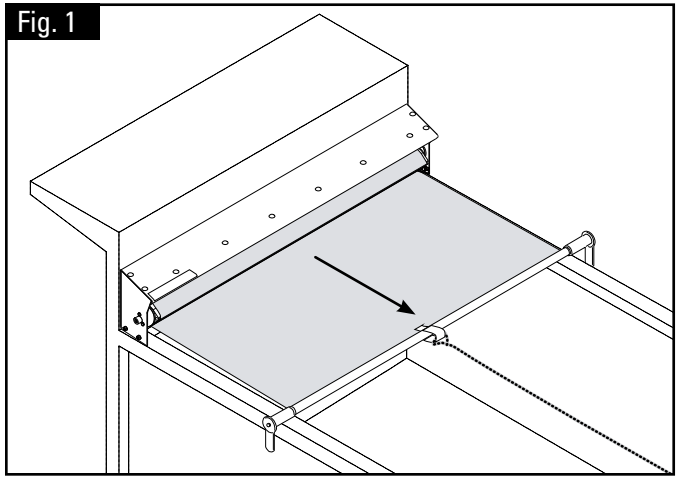


Fig. 2

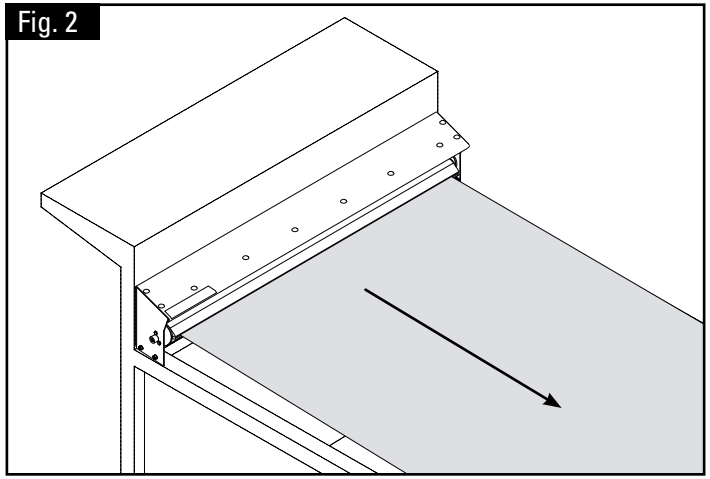
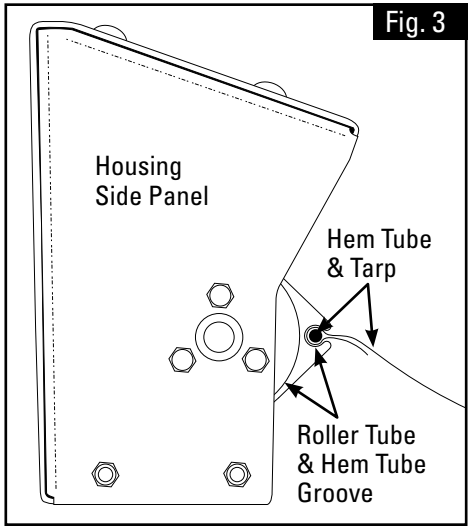


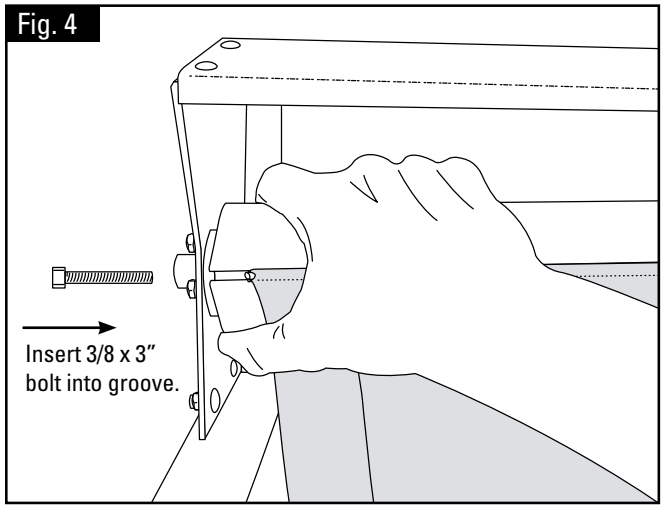
Fig. 3



Side View (Fig. 3).

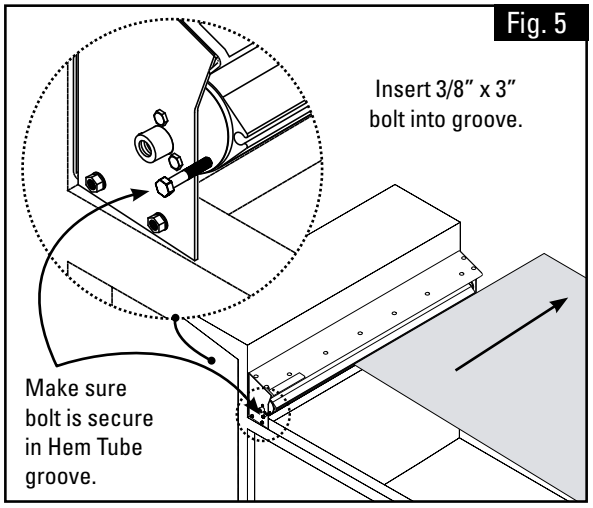
Note: The Steel Protector is to remain on box during entire conversion.

Fig. 4



Step 2:
Roll the roller tube hem tube groove to allow for insertion of the included 3/8" bolt. When the two are aligned, hold the tube in place and insert the bolt into the hole and roller tube. This will assure that the roller tube will not rotate as the tarp is removed (Fig. 4).

Fig. 5



Step 3:
Once roller tube is secure, remove tarp from groove through slot on the right side of the Steel Protector (Fig. 5) and set aside.

Removing Roller Tube

Fig. 6A

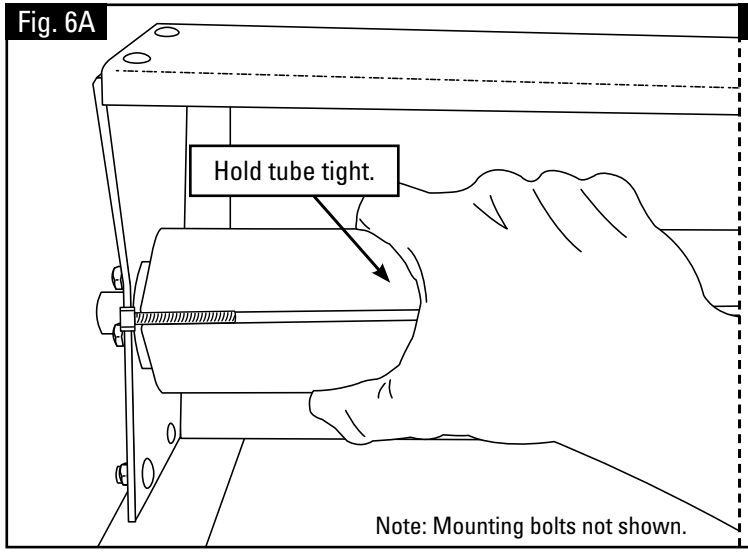
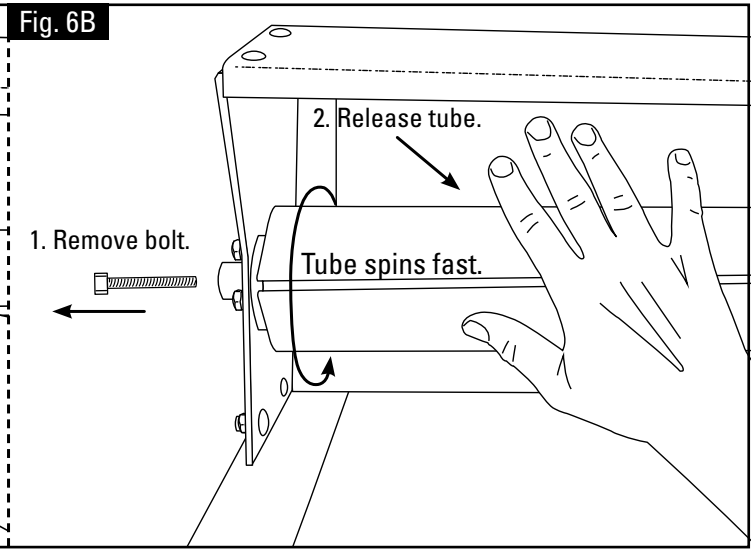
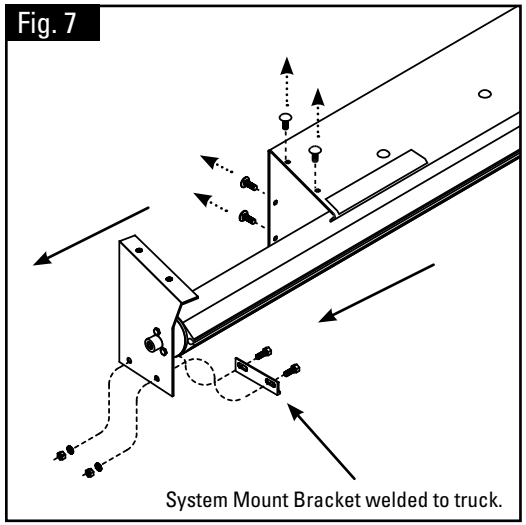


Fig. 6B



Step 4: With bolt in roller groove, hold roller tight with hand then use other hand to remove bolt (Fig 6a). Once the bolt is removed, let go of the roller to release the spring tension (Fig. 6b-1 & 2). When released, the roller tube will spin rapidly until all tension is released.

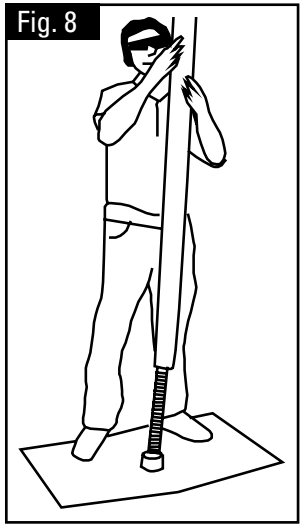
Fig. 7



Step 5: Remove the end plate and roller tube from the housing (Fig. 7).

Note: The mounting bracket will need to be reused with the new end plate.

Fig. 8

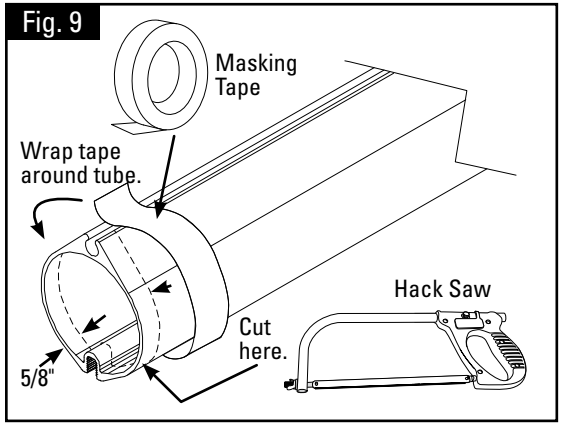


Step 6: Remove the screw that retains the End Cap (Shaft End). Place a piece of cardboard on the ground and hold the roller assembly vertically, with the end plate towards the ground. Shake the roller assembly up and down above the cardboard to pop the end cap and spring assembly free from the roller tube (Fig. 8).

Note: The cardboard is to protect the end of the spring shaft when it breaks free.

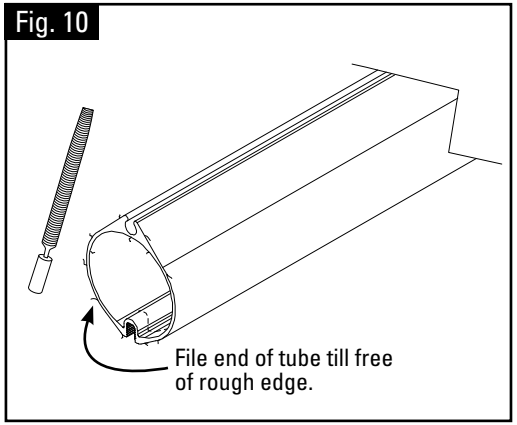
Roller Tube End Cap Installation

Fig. 9



Step 7: Position the roller tube on a flat surface. Cut roller tube 5/8" from end using a hack saw (Fig. 9). **Note:** Use masking tape wrapped around tube as a cutting guide.

Fig. 10



Step 8: After cutting off the 5/8" section and removing the masking tape (Fig. 10), file the edges to smooth out end of tube and provide a better fit for the end cap.

Fig. 11A

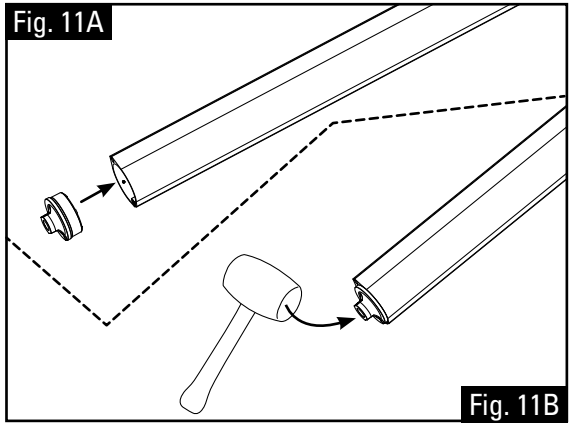
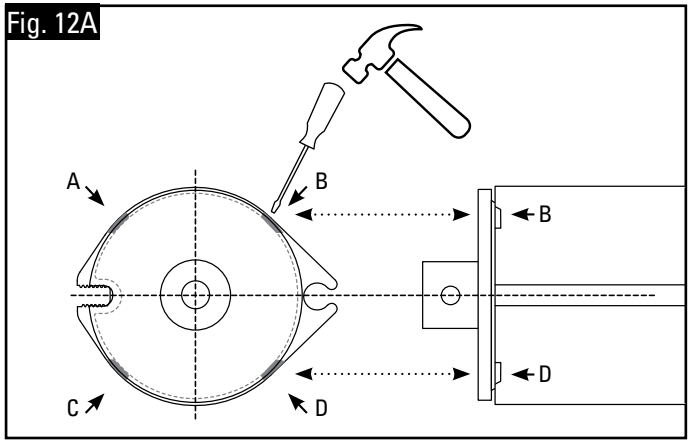


Fig. 11B

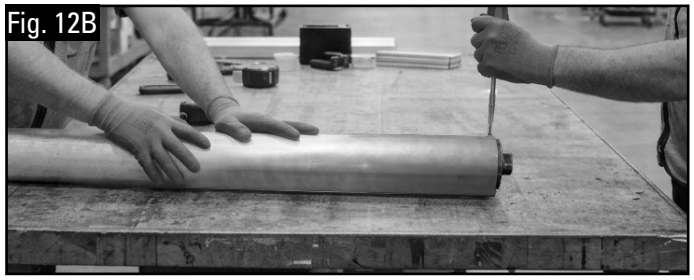
Step 9: Insert end cap into roller tube. Use a rubber mallet to tap the edges of the end cap lightly to ensure that it has been seated properly (Fig. 11A & 11B).

Fig. 12A



Step 10: To secure the end cap in the roller tube, make four (4 - A, B, C & D) indentations or dimples to hold the end cap in place. Use a heavy metal hammer and screwdriver to make the dimples (Fig. 12A).

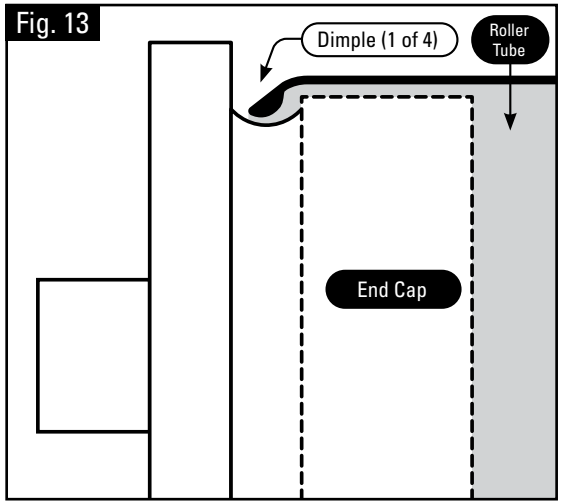
Fig. 12B



Note: Secure the roller tube before dimpling the end of the tube. Have someone hold the roller tube still on a flat surface during the procedure (Fig. 12B).

Dimple detail (Fig. 13).

Fig. 13



Roller Tube and Electric Motor Installation

Step 11: Insert Roller tube into Steel Protector Housing (Fig. 14-A) and secure to Electric End Plate (Fig. 14-B) using existing fasteners.

Fig. 14

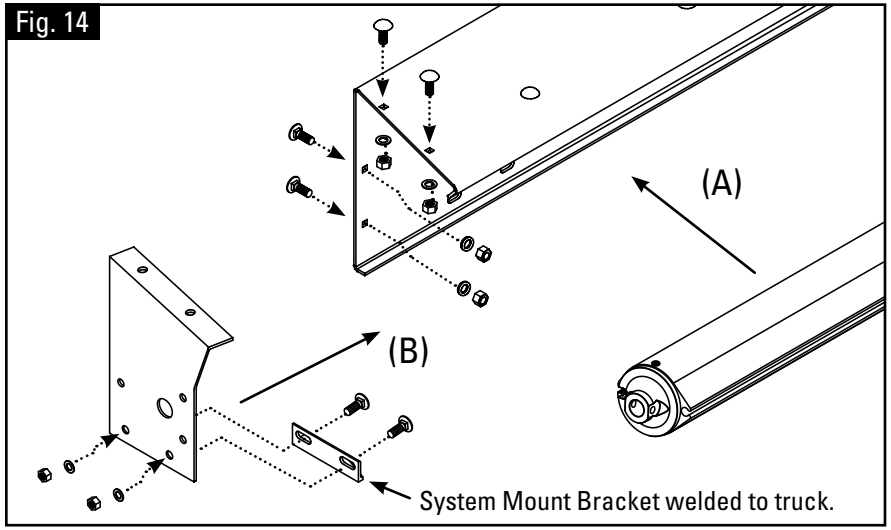
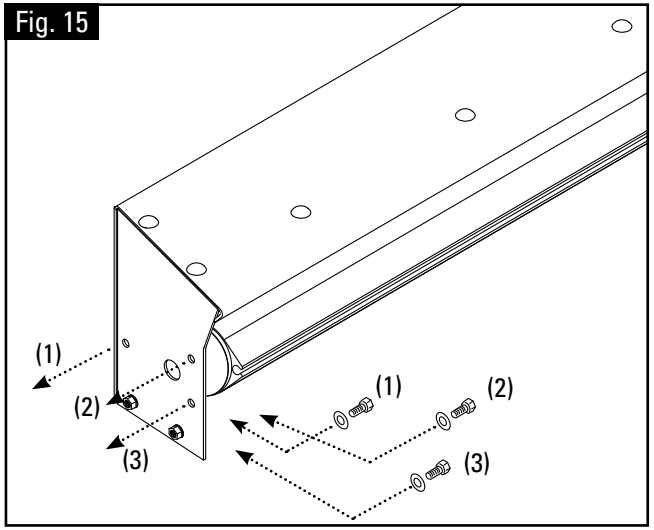


Fig. 15



Step 12: Insert three (3) HHCS bolts (Fig. 15) to allow for the Electric Motor to be mounted on the side of the Steel Protector.

Step 13: With the HHCS bolts in place, attach and secure the Electric Motor (Fig. 16) to the Electric End Plate using a 5/16" wrench.

Fig. 16

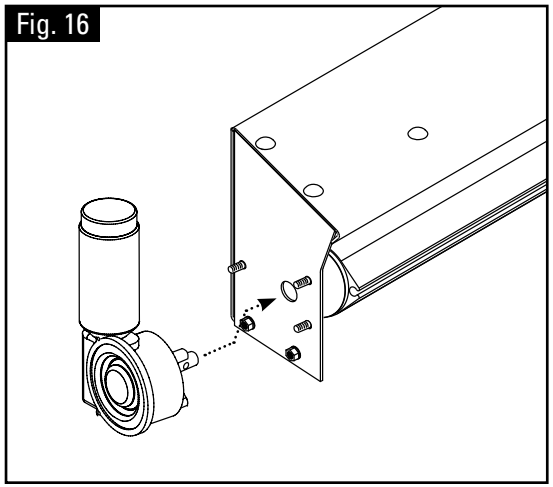
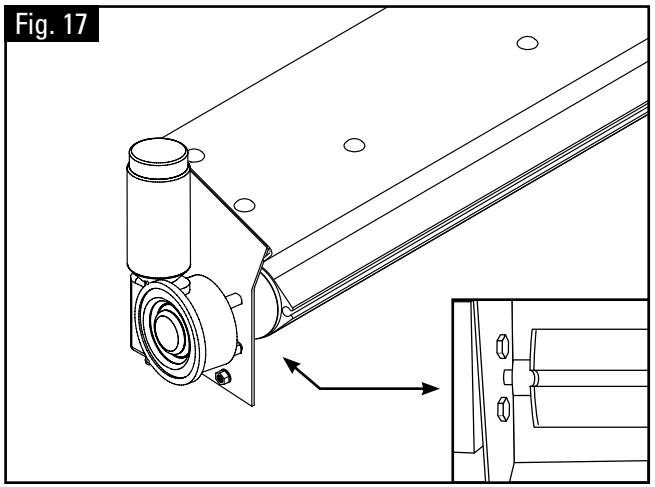


Fig. 17



Step 14: With the Electric Motor in place, secure with three (3) HHCS Bolts (Fig. 17).

Note: Make sure the motor shaft is inserted in the roller tube end cap.

Roller Tube and Electric Motor Installation

Fig. 18A

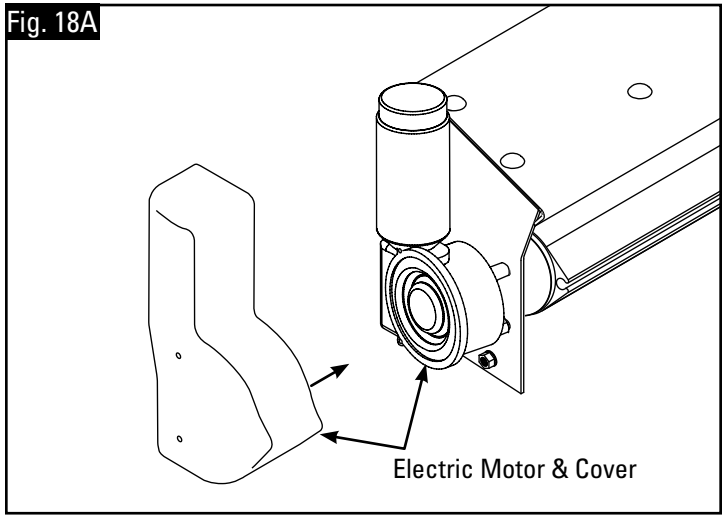
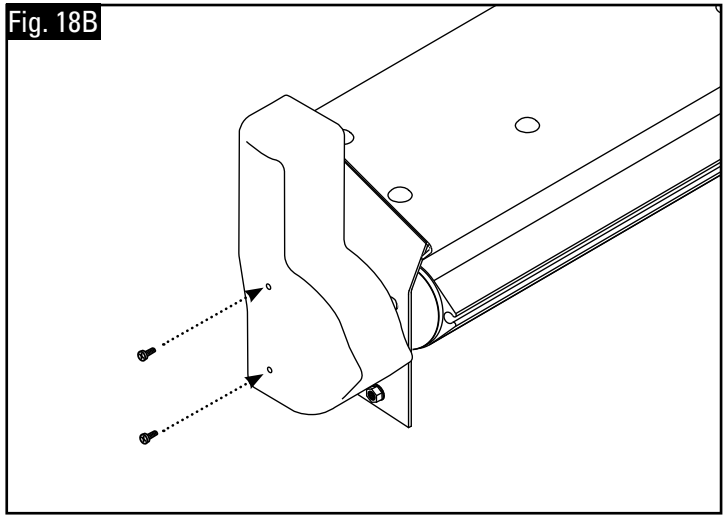


Fig. 18B



Step 15: Wire motor with Switch Kit per instructions on page 7 & 8.

Step 16: Place Electric Motor Cover on the mounted motor
(Fig. 18a) and then secure with two (2) mounting screws (Fig. 18b).

Step 17: With the Electric Motor drive shaft inserted into the roller tube end cap, install the HHCS bolt, flat washers and nyloc nut (Fig. 19a & b) and tighten.

Note: Make sure the roller tube is firmly secured to the Electric Motor shaft.

Fig. 19A

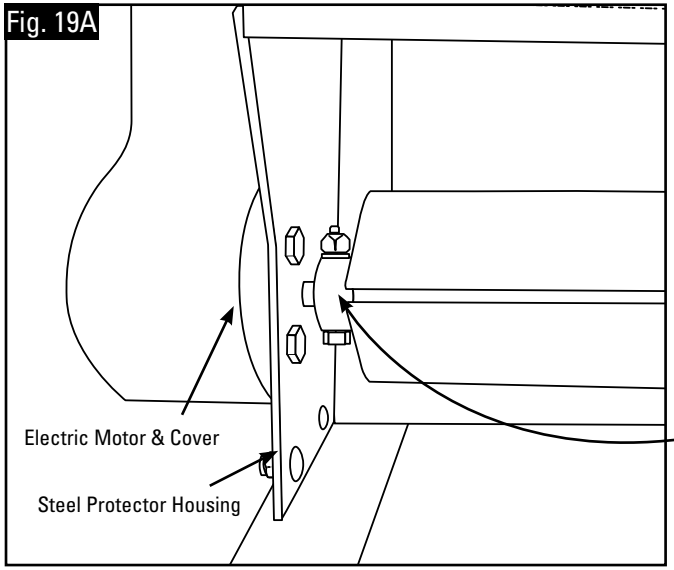
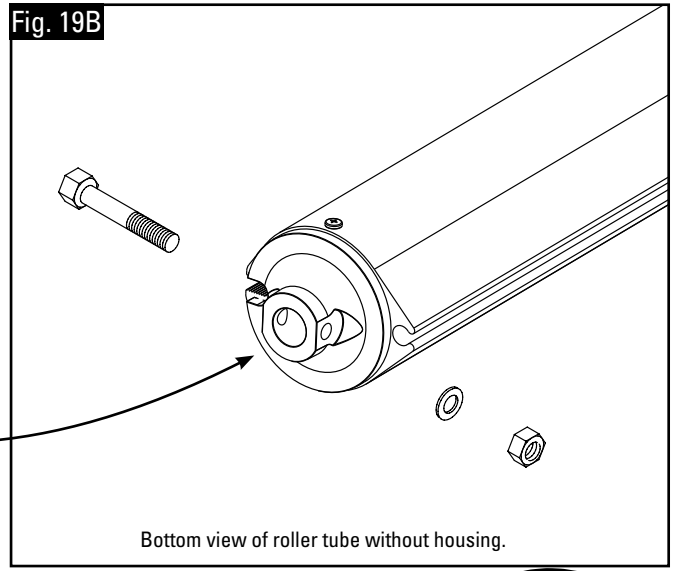


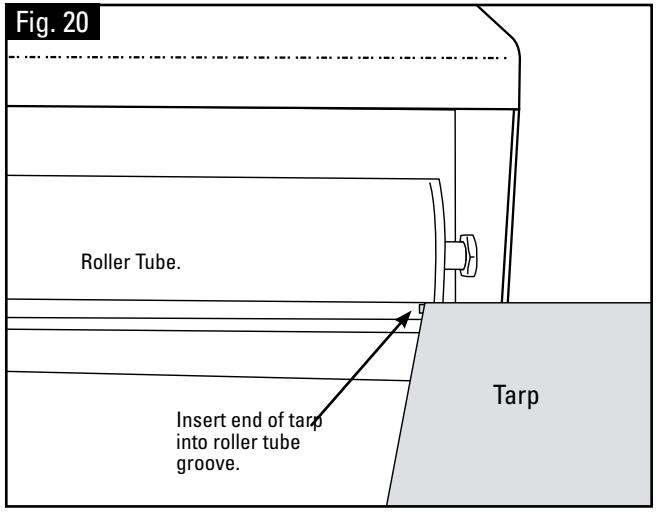
Fig. 19B



Bottom view of roller tube without housing.

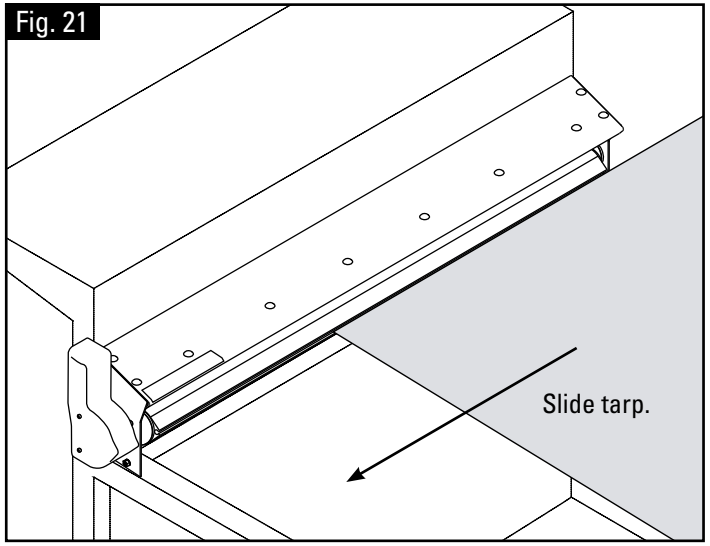
Tarp Reinstallation

Fig. 20



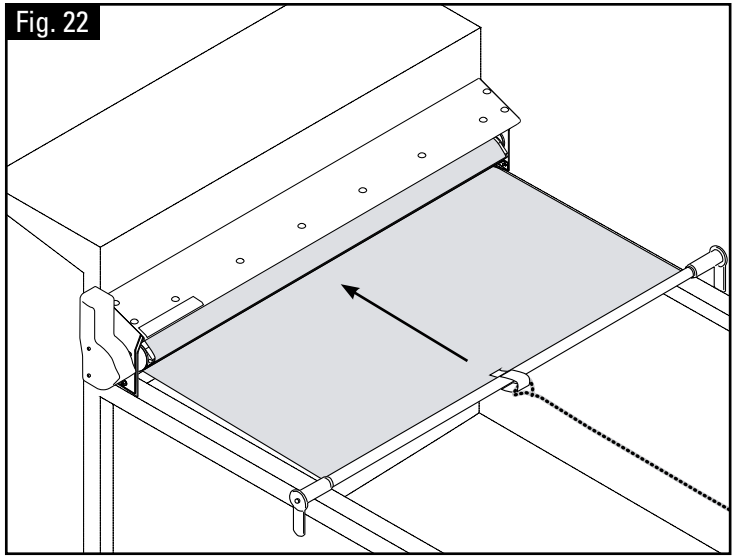
Step 18: Slide the edge of the tarp into the housing and roller tube groove (Fig. 20).

Fig. 21



Step 19: Slide tarp in roller tube groove until it is flush with the other side (Fig. 21).

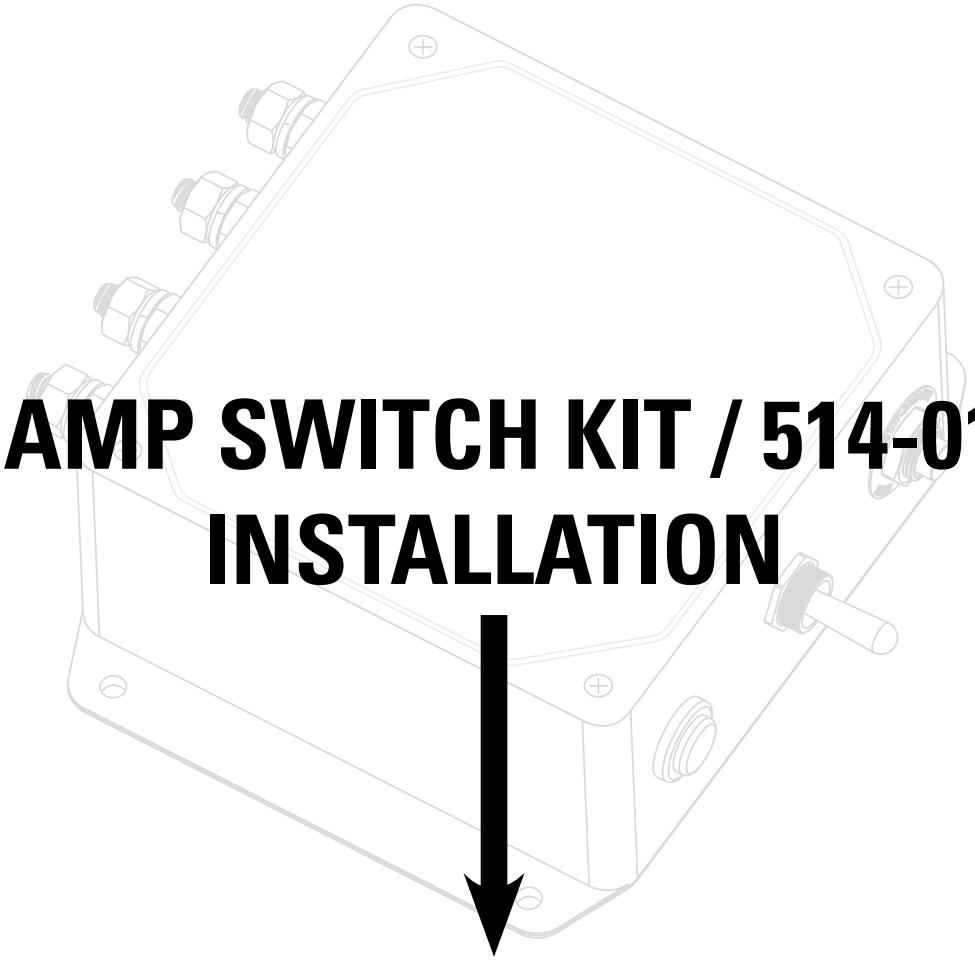
Fig. 22



Step 20: Once the tarp is installed and square on the box, use the electric motor to retract tarp (Fig. 22).

Note: See electric motor wiring instructions on page 7 & 8.

Special note: If installing an Arm Kit, use Spring Kit instructions from here on.



25 AMP SWITCH KIT / 514-0101 INSTALLATION

FOR 25 AMP SWITCH KIT INSTALLATION INSTRUCTIONS, SEE DOCUMENT 607-0059 OR CLICK HERE